ABSTRACT

SYSTEM, METHOD, AND APPARATUS FOR PASSIVE, MULTI-SPECTRAL, OPTICAL IDENTIFICATION OF DISTANT OBJECTS

[0030] A system passively identifies objects at large distances with an integrated two-dimensional pattern, spectral tailoring, and an imaging system. Encoded information allows objects of various origin and configuration to be easily and rapidly identified by optical means, but is invisible to the naked eye. The devices used for detecting the objects may be ground-based, airborne, or even satellite-based, and can track engagements of such marked objects in real-time. A tailored reflective surface at a specific wavelength band is applied to the exteriors of the objects to form a unique signature. A scanning system passively records the light emanating from the signature in the specific band, and recognizes the signature to discern what the object is based on a database of information.